TEST RESULTS OF GRADATION FOR BM
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-05-18-02** **Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-02/01
Type of Mix	:	BM-Plant (Bituminous Macadam)
Date of test		18-05-17
Weight of Sample(gm)	:	5000

IS Sieve Size(mm)	Weight Retained(gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Specification Limits as per MORTH specification Table 500-7(grading -2)
26.5	0	0	0	100	100
19	155	155	3.1	96.9	90-100
13.2	623	778	15.6	84.4	56-88
4.75	2172	2950	59.0	41.0	16-36
2.36	1364	4314	86.3	13.7	4-19
0.3	287	4601	92.0	8.0	2-10
0.075	143	4744	94.9	5.1	0-8
PAN	256	5000	100.0	0	0

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

SPECIFIC GRAVITY AND WATER ABSORPTION TEST
IS:2386 Part III

Lab ID : **CP-RW-2017-05-18-02** **Date: 22-05-17**

Customer : Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.

Address : Dasarahalli Sub Division, BBMP, Bangalore.

Project Name : Ward Development work in Ward No.14, in Bagalagunte.

Agency : Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.

Customer Reference : BBMP/EE/DD/WO/71/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 18-05-17

Sample ID No : 2017-05-18-02/01

Type of Mix : Coarse Aggregate for BM (Bituminous Macadam)

Date of test : 18-05-17

Sl.No	Details of Observations	Index	Unit	Test 1	Test 2	Mean Value
1	Weight of Wet aggregates + Basket suspended in water	A1	grams	2287	2256	
2	Weight of Empty Basket suspended in water	A2	grams	791	791	
3	Weight of Aggregates in water	A=A1-A2	grams	1496	1465	
4	Weight of Saturated Surface Dry aggregate	B	grams	2392	2365	
5	Weight of oven dried aggregate	C	grams	2387	2360	
6	Specific gravity	C/(B-A)		2.66	2.62	2.64
7	Apparent Specific gravity	C/(C-A)		2.68	2.64	2.66
8	Water absorption	100*(B-C) /C	Percent	0.21	0.21	0.21

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

ಸಹಾಯಕ ಕಾರ್ಯಪಾಲಕ ಅಧಿಯಂತರ
ಟಿ.ದಾಸರಹಳ್ಳಿ ಉಪ-ವಿಭಾಗ
ಬಾಗಲಗುಂಟೆ ಪಿಐಪಿಐಯು
ಬೆಂಗಳೂರು

CIVIL Pro Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R.KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE (IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-05-18-02** **Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Agency	:	Ward Development work in Ward No.14, in Bagalagunte.
Project Name	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-02/01
Type of Mix	:	Coarse Aggregate for BM (Bituminous Macadam)
Date of test	:	18-05-17

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 500-6
Flakiness Index	12.6%	Combined Flakiness & Elongation Index for BM is Maximum 35%
Elongation Index	11.8%	
Combined Flakiness and Elongation Index for BC	24.4%	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL Pro BANGALORE Sig..... Date.....

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

TESTS RESULTS ON AGGREGATE IMPACT VALUE
(IS:2386 Part IV)

Lab ID	:	**CP-RW-2017-05-18-02**	**Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.	
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.	
Agency	:	Ward Development work in Ward No.14, in Bagalagunte.	
Project Name	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.	
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18	
Source of Sample	:	Sample supplied by Agency	
Sample Condition	:	Satisfactory	
Date of Receipt	:	18-05-17	
Sample ID No	:	2017-05-18-02/01	
Type of Mix	:	BM (Bituminous Mecadam)	
Date of test	:	18-05-17	

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	301.7	301.5
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	61.9	63.8
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	239.6	237.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.2	0.4
5	Aggregate impct value	(B/A)*100	20.52	21.16
6	Aggregate impct value (Mean of two tests)		20.8	

Note:-
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL PRO BANGALORE Sig..... Date.....

Page 1/1
End of Report

DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2017-05-16-03** **Date: 17-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-17
Sample ID No	:	2017-05-16-03-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	16-05-17

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.1%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.7%	
Combined Flakiness and Elongation Index for WMM	21.8%	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

FOR CIVIL Pro.

CIVIL PRO Sig..... Date..... BANGALORE

R KARTHIK RECHAN
Authorized Signatory
Quality Manager

Prepared By:
Harshitha

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

Lab ID	:	**CP-RW-2017-05-16-03** **Date: 17-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-05-17
Sample ID No	:	2017-05-16-03-01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	16-05-17

Sl.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	302.3	302.3
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	62.8	65.1
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	238.8	236.3
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.7	0.9
5	Aggregate impact value	(B/A)*100	20.8	21.5
6	Aggregate impact value (Mean of two tests)	Pecentage	21.2	

Note:-

The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

CIVIL PRO
AN ISO 9001 : 2008 COMPANY &NABL ACCREDITED LABORATORY AS PER ISO/IEC 17025:2005
4, 7TH MAIN MALLESWARAM, BANGALORE -3

TEST RESULTS OF GRADATION FOR GSB
(IS 2386:(Part 1) 1963 (RA2011)

Lab ID	:	**CP-RW-2017-05-13-03** **Date: 16-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	13-05-17
Sample ID No	:	2017-05-13-03/01
Type of Mix	:	GSB (Granular Sub Base)
Date of test	:	13-05-17
Oven Dry Weight	:	10000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Comulative Weight Retained (gm)	Comulative % of Retained	Comulative % of Passing	Spec. Limit Vide Table 400.1 MORTH Specification
75	0	0	0	100	100
53	865	865	8.65	91.4	80-100
26.5	2272	3137	31.37	68.6	55-90
9.5	1377	4514	45.14	54.9	35-65
4.75	1182	5696	56.96	43.0	25-55
2.36	2044	7740	77.40	22.6	20-40
0.425	543	8283	82.83	17.2	10-25
0.075	1265	9548	95.48	4.5	0-5

TESTS ON FILLER SCREEN MATERIALS

Sl no	Particulars	Test results	Spec.Limit Vide Table 400.2 MORTH Specification
1	Liquid Limit, %	23.72%	Maximum 25
2	Plasticity index, %	Non plastic	Maximum 6

Note:-
The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared By:
Harshitha

CIVIL PRO Sig..... Date..... BANGALORE

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

End of Report

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT ON BITUMEN

Lab ID	:	**CP-2017-05-18-02** **Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Agency	:	Ward Development work in Ward No.14, in Bagalagunte.
Customer's Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-02/01
Sample Type	:	Bitumen
Reference to BIS codes	:	IS: 1201-1220(1978) (Reaffirmed-2004)
Date of test	:	19-05-17

Test Results

Sl.no	Name of Test	Result	Requirements as per IS:73-2013
1	Penetration at 25°C , in 1/10th mm	65	60 to 70
2	Softening Point, °C	50.2	Min. 40°C
3	Ductility, cm	96	Min. 75cm
4	Flash point, °C	230.5	Min. 220°C
	Fire point, °C	262.5	

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

HIGHWAY & BUILDING MATERIALS TESTING LABORATORY | STRUCTURAL |
GEO TECHNICAL | PROJECT MANAGEMENT | SURVEYING SERVICES |

TEST REPORT OF AGGEGRATE STRIPPING VALUE OF ROAD AGGRGATE (IS:6241)

Lab ID	:	**CP-RW-2017-05-18-03** **Date: 22-05-17**
Customer	:	Assistant Executive Engineer, Dasarahalli Sub Division, BBMP, Bangalore.
Address	:	Dasarahalli Sub Division, BBMP, Bangalore.
Project Name	:	Ward Development work in Ward No.14, in Bagalagunte.
Agency	:	Technical Manager(West), KRIDL, Project Implementation unit, NO. 280, 59th Cross, 17th 'C' Main Road, 3rd 'Y' Block, Rajajinagar, Bangalore.
Customer Reference	:	BBMP/EE/DD/WO/71/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	18-05-17
Sample ID No	:	2017-05-18-01/01
Type of Mix	:	BM(Bitumenous Macadam)
Date of test	:	18-05-17

Type of Binder	:	60/70
% of Binder Used	:	5.0%
Weight of Aggregate	:	200.0 gm
Weight of Binder	:	10.0 gm
Temperature of water bath	:	40°C

No of test	Retained Stripping Percentage	Stripping Percentage	Average Retained Stripping Percentage	Secified limits as per MORTH specification table 500-8
1	98.5	1.5	98.3	Minimum Retained Coating 95%
2	98.5	1.5		
3	98.0	2.0		

Note:
The results pertain to the samples received and tested.
All information furnished by Customer/Representative
Any correction in the report will make this report invalid
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 30 days from the date of issue of test certificate

Prepared by
Harshitha

FOR CIVIL Pro.
CIVIL Pro Sig..... Date..... BANGALORE
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****